

Title (en)
METHOD, DEVICE AND SYSTEM FOR VEHICULAR COMMUNICATION

Title (de)
FAHRZEUGKOMMUNIKATIONSVERFAHREN, -VORRICHTUNG UND -SYSTEM

Title (fr)
PROCÉDÉ, DISPOSITIF ET SYSTÈME POUR UNE COMMUNICATION DE VÉHICULE

Publication
EP 2797366 A4 20141210 (EN)

Application
EP 12860557 A 20120519

Priority
• CN 201110430543 A 20111220
• CN 2012075774 W 20120519

Abstract (en)
[origin: EP2797366A1] Embodiments of the present invention disclose a vehicular communication method, including: acquiring a current position of a vehicle; acquiring all fixed APs, the distance from each of which to the current position of the vehicle is smaller than its maximum transmission distance; scanning all the fixed APs in a scheduling period; selecting at least one fixed AP of which signal strength is greater than a preset value in all the fixed APs as a to-be-accessed fixed AP according to the scanning results; and triggering a mobile terminal in the vehicle to respectively access a vehicular AP in the vehicle and the to-be-accessed fixed AP in the scheduling period according to allocated time when an access condition is satisfied. Correspondingly, the embodiments of the present invention also disclose a vehicular communication device and system. Through the above technical solutions, a mobile terminal in a vehicle is enabled to be connected to a fixed AP nearby a current position when an access condition is satisfied, thereby increasing the communication bandwidth and supporting bulk data service.

IPC 8 full level
H04W 48/20 (2009.01)

CPC (source: EP US)
H04W 48/04 (2013.01 - EP US); **H04W 48/16** (2013.01 - EP US); **H04W 48/20** (2013.01 - EP US)

Citation (search report)
• [X] US 6345186 B1 20020205 - SCHULTZ JOHAN [SE], et al
• [A] US 2010142504 A1 20100610 - BITRAN YIGAL [IL], et al
• [A] WO 2010133040 A1 20101125 - HUAWEI TECH CO LTD [CN], et al & US 2012058763 A1 20120308 - ZHAO HONGXIA [CN]
• [A] CHANDRA R ET AL: "MultiNet: connecting to multiple IEEE 802.11 networks using a single wireless card", INFOCOM 2004. TWENTY-THIRD ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES, IEEE, PISCATAWAY, NJ, USA, vol. 2, 7 March 2004 (2004-03-07), pages 882 - 893, XP010740835, ISBN: 978-0-7803-8355-5, DOI: 10.1109/INFCOM.2004.1356976
• See references of WO 2013091342A1

Cited by
CN109889992A; TWI669022B

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2797366 A1 20141029; EP 2797366 A4 20141210; EP 2797366 B1 20180704; CN 103179643 A 20130626; CN 103179643 B 20170606; US 2014321380 A1 20141030; US 9479999 B2 20161025; WO 2013091342 A1 20130627

DOCDB simple family (application)
EP 12860557 A 20120519; CN 201110430543 A 20111220; CN 2012075774 W 20120519; US 201414309444 A 20140619